Name(s) of Risk Team Members: Joel Scott, Mel Van Essendelft, Raymond Karol, Dave Passarello, Arthur Piper, Peter Cirnigliaro, Ed Lessard, John Maraviglia		Point Value → Parameter ↓	1			2	3	4			5		5			
Area/Facility Description Title: Site Wide Material Handling		O						Canaa kwaali	/1:0			>once/shift				
Area/Facility # (if applicable): Facility-Wide FRA 7		Occupancy or Use	≤once/year			≤once/month	≤once/week	≤once/shift								
Area/Facility Description: Collider Accelerator Department		Severity	First Aid Only				Medical Treatment	fedical Treatment Lost Time			Partial Disability			Death or Permanent Disability		
		Libalihaad		Immoggible			77 11 1	Possible	D 1 11		1.		2.6	√14:1 -		
Approved by: E. Lessard Date: 7/8/04 Rev.#: 1		Likelihood	Impossible				Unlikely	Probable			Multiple					
Reason for Revision (if applicable):								Comments:							
FRA number added.	Uniform hazard nomenclat	ure added.		-												
				Before Addition Controls							After Additional Controls					
Physical Item or Activity	Hazard(s)	Control(s)		Occupancy A	Severity B	, Likelihood C	Risk* AxBxC	Contro	ol(s) Added to Reduce Risl	k	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	% Risk Reduction	
Moving Items with Cranes	Being struck by an object, such as a tool falling on a worker from above	Training, daily crane inspections p maintenance, PPE, certified rigging rigging inspections, load weights a known prior to lift, procedures, qua critical lift and engineered lift requ warning alarms, postings, work pla barriers	g equipment, Tier 1, year nd center of gravity alified riggers if require irements and reviews,		5	2	40									
Mobile crane use	Being struck by an object, such as a tool falling on a worker from above	Training, daily crane inspections prior to use, PE crane maintenance, PPE, certified rigging equipment, Tier 1, yearly rigging inspections, load weights and center of gravity known prior to lift, procedures, critical lift and engineered lift requirements and reviews, warning alarms, postings, work planning, load testing, barriers, certified HEMO operators and riggers only, seat belts, PE Rigging Supervisor			5	2	40									
Mobile crane use	Highway accidents, such as tip-over or traffic accident	review Training, daily crane inspections p maintenance, PPE, certified rigging rigging inspections, load weights a known prior to lift, procedures, critifit requirements and reviews, warn work planning, load testing, barries operators and riggers only, seat bel review, outriggers on crane, alarms escort for movement, seat belts	g equipment, Tier 1, year nd center of gravity tical lift and engineered ning alarms, postings, rs, certified HEMO tts, PE Rigging Supervis	sor	4	2	32									
Fork truck use	Being struck by an object, such as a falling load	Training, daily fork truck inspection inspections, PE inspections and mastrapped to mast, load weight and work planning, postings, alarms, consecret for transport if required, roa	nintenance, required iter center of gravity known ertified riggers available	ns	4	3	48									
Fork truck use	Highway accidents, such as tip-over or traffic accident	Training, daily fork truck inspection inspections, PE inspections and mastrapped to mast, load weight and work planning, postings, alarms, consecret for transport if required, roal spotter, backing-up alarms	ons, PPE, seat belts, Tien intenance, required iter center of gravity known ertified riggers available	ns	4	3	48									

Miscellaneous rigging equipment use (come-alongs, lifting fixtures, a- frames, Johnson bars, skates, etc.)	Being struck by an object, such as a falling load or tool	Certified inspected equipment, training, engineering review and witnessed load t required, certified riggers as required, lo center of gravity known, postings labeling	tests, PPE as oad weights and	4	4	3	48						
Miscellaneous rigging equipment use (come-alongs, lifting fixtures, a- frames, Johnson bars, skates, etc.)	Overexertion – injuries caused by excessive lifting, pushing, pulling, holding, carrying or throwing of an object	Certified inspected equipment, training, engineering review and witnessed load t required, certified riggers as required, lo center of gravity known, postings labeling	tests, PPE as and weights and ng	4	4	3	48						
Manual material handling (pallet jacks, barrel and equipment carts, etc,)	Being struck by an object, such as a falling load or tool	Training, certified equipment, PPE as re load carrying limit of equipment, posting specific back injury prevention training, certified riggers if required, manual lift	gs, tier 1,procedures, work planning, weight limit		3	3	45						
Manual material handling (manual lift or pallet jacks, barrel and equipment carts, etc,)	Overexertion – injuries caused by excessive lifting, pushing, pulling, holding, carrying or throwing of an object	Training, certified equipment, PPE as remanual lift weight limit or load carrying postings, Tier 1 inspections, procedures, prevention training, work planning, certified	g limit of equipment, , specific back-injury ified riggers if		3	4	60	The OHSAS 18001 management system is expected to raise awareness with regards to sprains and strains during manual-lift or manual-pull work. Strains and sprains and first aid events are discussed at the quarterly WOSH Committee meetings. Each C-AD meeting now starts with "5-minutes" on safety and strain and sprain events are discussed.	5	3	3	45	25%
Transportation of small equipment in lab vehicles	Being struck by an object, such as a falling load or tool	Training, lab vehicles rated for load, pro secured in trucks, certified riggers if req chemicals and radioactive materials in p labeled, vehicle maintenance, speed limit removal, vehicle inspections	uired, work planning, proper containers and its, traffic rules, snow	4	3	3	36						
Transportation of small equipment in lab vehicles	Highway accidents, such as traffic accident	Training, lab vehicles rated for load, pro secured in trucks, certified riggers if req chemicals and radioactive materials in p labeled, vehicle maintenance, speed limit removal, vehicle inspections	uired, work planning, proper containers and	4	4	3	48						
Transportation of large items on trucks, lab and outside vehicles	Being struck by an object, such as a falling load or tool	Training, certified riggers to load vehicle inspected prior to use, chocking and blocarpenters, SBMS subject areas for chert transports, DOT transport rules, work ploversight, escorts as required, postings a required, PPE as required, vehicle maint snow removal, road barriers, vehicle ins	cking by PE mical and radioactive lanning, supervisor and labeling as tenance, traffic rules,	4	3	3	36						
Transportation of large items on trucks, lab and outside vehicles	Highway accidents, such as traffic accident	Training, lab vehicles rated for load, prosecured in trucks, certified riggers if requestion chemicals and radioactive materials in plabeled, vehicle maintenance, speed limit removal, vehicle inspections, spill response onsite.	uired, work planning, proper containers and its, traffic rules, snow	4	4	3	48						
Further Description of	Controls Added to Reduce	Risk:											
*Risk:	0 to 20	21 to 40	41	1-60				61 to 80	81 or	greate	r		

Moderate

Substantial

Intolerable

Negligible

Acceptable